

KEB Service Manual

14F5C1D-380A

1. Description

The 14F5C1D-380A drive features a power rating of 7.5 kW and supports 3-phase voltage. Developed by KEB as part of the F5 Combivert Axis Drive Series, it includes earth fault monitoring. The drive operates from -10 to 45 °C and supports a voltage range of 400 V (305-500 V).

3. Product Information

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Product Description:

The 14F5C1D-380A by KEB is a powerful axis drive from the F5 Combivert series engineered for demanding industrial applications where precision, reliability, and efficiency are needed. It is intended for usage in high-performance motor control systems with exceptional features that aid optimal performance from diversified industrial sectors. This appliance has an input current of 16.5 A, a power rating of 7.5 kW, and can easily operate for heavy-duty machines as well as complex applications that will ensure optimal operation with minimal downtime.

The 14.F5.C1D-380A is built with modern technology to have a maximum current of 35.6 A, and it comes with the possibility of frequency switching up to 2 kHz, which makes it flexible to various demanding motor systems. The configuration is 3-phase with an utmost voltage of 400 V (305-500 V), and this makes it nicely accommodative to numerous varied environments and applications. Since the driver is in full compliance with the exigent quality and performance requirements, such as the EN 61800-2 and EN 61800-5-1 product standards and the EN 61800-3 and EN 61000-6-1 to 4 EMC standards, it will thus function efficiently and provide electromagnetic compatibility within industrial applications.

The 14.F5.C1D-380A is designed to work efficiently within a vast temperature range, whose operating temperature is -10 to 45 °C and the storage temperature range is -25 to 70 °C, accompanied by several short circuit monitoring and earth fault monitoring key safety features to protect the drive together with any connected equipment from potential electrical faults. It offers increased flexibility with programmable digital inputs (8 channels) and analog outputs (2 x 0 to ±10 V). The system can now be configured for accurate control and feedback, especially for users with high-demand applications in industries that require reliable and secure motor control.

Specs

Analog Outputs

Programmable, 2 x 0 to ±10 V

Current Input (In)

16.5 A

Digital Inputs

Programmable, 8 channels

Earth Fault Monitoring

Yes

Emc Standard

EN 61800-3, EN 61000-6-1 to 4

Enclosure Class

C1

Frequency Switching (fs N/max)

2 kHz

Max Current (imax)

35.6 A

Operation Temperature

-10 to 45 °C

Phase

3-phase

Power Rating (pn)

7.5 kW

Product Standard

EN 61800-2, -5-1

Short Circuit Monitoring

Yes

Storage Temperature

-25 to 70 °C

Voltage Range

400 V (305-500 V)

DRIVE

F5 SERIES

400 VAC 23.1 AMP 50/60 HZ INPUT

0-400 VAC 16.5 AMP 0-800 HZ OUTPUT

3 PHASE

11 KVA

7.5 KW

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